



Animal and Plant  
Health Inspection  
Service

Veterinary Services

Center for Veterinary  
Biologics

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## **Leptospira grippotyphosa Monoclonal Antibody (LG MAb) - Lot ID IRP 04-505**

**Document Number:** CVB-DAT-0082

**Revision:** 02

**Previous Number:** BB DAT0102.07

**Vault:** CVB-Released

**Section/Area:** CVB-DAT

**Effective Date:** 24 May 2021

**Notes:** *Strain or Source: Hybridoma LGF02-002, Fill date: April 28, 2004*

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Center for Veterinary Biologics  
P. O. Box 844  
Ames, IA 50010

1. **Reagent Name:** *Leptospira grippotyphosa* Monoclonal Antibody (LG MAb)
2. **Strain or Source:** Hybridoma LGF02-002
3. **Lot Number:** IRP 04-505
4. **Fill Date:** April 28, 2004
5. **Expiration Date:** April 30, 2022

**Precautions:** There are no known hazards associated with the use of this reagent.

6. **Intended Use:** For use in an enzyme-linked immunosorbent assay (ELISA) as described in **Supplemental Assay Method (SAM) 626** for serial release potency testing of leptospiral bacterins containing serovar *grippotyphosa*.
7. **Instructions for Use:** Dilute LG MAb 1:9,000 in phosphate-buffered saline supplemented with 1% polyvinyl alcohol and 0.1% normal rabbit serum, and use immediately, according to **SAM 626**.
8. **Test of Reagent:** LG MAb passively protected hamsters against a challenge with *L. grippotyphosa*. LG MAb reacts against *L. grippotyphosa*-specific lipopolysaccharide-like antigen on Western blot; it does not react with antigens from other serovars. The isotype of LG MAb is IgM. The optimal use dilution was determined by titration, using the assay described in **SAM 626**.
9. **Container Size, Type, Weight, or Volume:** 250  $\mu$ L aliquots in plastic microcentrifuge tubes.
10. **Storage Conditions:** -20° to -80°C for long-term storage. Vial may be stored at 2°- 7°C for two months.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-7020 or FAX (515) 337-7673.
12. **Origin and Passage History:** Not applicable.

**13. Method of Preparation:** The hybridoma cell line was developed by immunizing BALB/c mice with an extract of *L. grippityphosa* challenge strain and fusing splenocytes with Sp2/O myeloma cells. Ascites fluid collected from BALB/c mice injected with hybridoma LGF02-002 was pooled, filtered, and frozen at -20°C or lower.

**14. Other:**

**Restrictions:** This reagent is provided by the CVB to biologics manufacturers only for use in potency testing according to **SAM 626**.

Reagent orders and feedback should be sent *including phone number* to the following email address: [VS.DB.CVB.Reagent.Requests@usda.gov](mailto:VS.DB.CVB.Reagent.Requests@usda.gov)

Reagent orders forms (APHIS Form 2018) can be found on the CVB website.